



KÖSTER ECB 2.0 U S

Technical Data Sheet RE 820 U S

Issued: 2019-04-10

Test Report 1200/676/17 EN 13967 MPA Braunschweig

Homogenous Ethylene Copolymer Bitumen based waterproofing membrane (ECB) for basement and underground structures

Features

The KÖSTER ECB 2.0 U S is an homogenous waterproofing membrane based on ethylene copolymer bitumen (ECB) compound, with a top silver signal layer for damage visual control during the application procedures

- Color: black, upper side silver
- homogeneous seam bonding with hot air welding
- immediate waterproofing effect
- temperature resistant
- aging and rot resistant
- high cold flexibility ($\leq -50^{\circ}\text{C}$)
- root resistant
- compatible with bitumen
- compatible with polystyrene
- No substrate preparation needed
- suitable for all types of insulation
- resistant against normal mechanical stresses
- resistant to microorganisms
- environmentally friendly
- free of softeners and chlorine
- do not become brittle over time
- safe for health, water, soil, and plants
- recyclable

Technical Data

Refer to last page.

Fields of Application

KÖSTER ECB 2.0 U S is a homogenous waterproofing membrane for use in structural waterproofing such as underground structures, tunnels, retaining walls, concrete rafts and slabs or similar others.

The main fields of application are:

- Underground structures
- Rafts or mat foundations
- Retaining walls (positive side)
- Underground car parks
- Contiguous piling & diaphragm walls
- Embankments

Application

Please refer to the TPO/ECB Installation Instructions and the Technical Manual for TPO/ECB of KÖSTER BAUCHEMIE AG for correct application of KÖSTER Waterproofing Membranes.

Packaging

RE 820 210 U S


2.0 mm x 2.10 m x 20 m

Safety

Adhere to all governmental, state, and local safety regulations when installing the membranes.

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu

 0761 15	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich KÖSTER ECB 2.0 U S EN 13967 0761-CPR-0423 Waterproofing membrane made from Ethylene Copolymer Bitumen
Length according to DIN EN 1848-2	20 m ¹⁾
Width according to DIN EN 1848-2	2.10 m ²⁾
Effective thickness according to DIN EN 1849-2	2.0 mm
Designation according to SPEC 20000-202 Color Visible flaws according to DIN EN 1850-2 Straightness according to DIN EN 1848-2 Area weight according to DIN EN 1849-2 Watertightness according to DIN EN 1928 Method A Watertightness according to DIN EN 1928 Method B Exposure to liquid chemicals including water according to DIN EN 1847 Reaction to fire according to EN 13501-1 Shear resistance of the joining seam according to DIN EN 12317-2 Water vapor permeability according to DIN EN 1931 Tensile elongation according to DIN EN 12311-2 Tensile strength longitudinal / transverse Elongation at break / cross Resistance to impact according to DIN EN 12691 Method A Method B Resistance to static load according to DIN EN 12730 Method A Method B Behavior to folding at low temperatures according to DIN EN 495-5 Behavior to exposure to bitumen according to DIN EN 1548 Durability against warm storage according to DIN EN 1296, DIN EN 1928 (Verf. A) Tear resistance (nail shaft) according to DIN EN 12310-1	DIN EN 13967:2012 Moisture barrier Type T BA-ECB-BV-2.0 black with silver foil free of visible flaws ≤ 50 mm 2000 g/m^2 $\geq 60 \text{ kPa/24h}$ tight $\geq 400 \text{ kPa/72h}$ tight tight Class E $> 500 \text{ N/50 mm}$ Failure outside the overlapped joint $\mu = 100,000$ $\geq 9 \text{ N/mm}^2$ (Method B) $\geq 700 \%$ (Method B) ≥ 600 mm ≥ 1750 mm ≥ 20 kg ≥ 20 kg $\leq -50 \text{ }^\circ\text{C}$ tight tight $\geq 450 \text{ N}$

1) Special lengths on request 2) Special widths on request

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu